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5	17.	(New)	A cooling device for an electronic component, the cooling device including:
6		(a)	a first heat sink part having a component surface adapted to be placed in a heat
7			transfer relationship with the electronic component;
8		(b)	a second heat sink part adapted to be placed together with the first heat sink part in
9			an operating position;
10		(c)	one or more first projections making up a contact surface of the first heat sink part,
11			and one or more second projections making up a contact surface of the second heat
12			sink part, wherein the contact surface of the first heat sink part is adapted to mate
13			with the contact surface of the second heat sink part with the one or more first
14			projections interdigited with the one or more second projections when the first heat
15			sink part and the second heat sink part are placed together in the operating position;
16		(d)	one or more channels formed in the second heat sink part at least partially through
17			one or more of the second projections for carrying a flow of liquid coolant there
18			through; and
19		(e)	a supply connection and a return connection included with the second heat sink
20			part, wherein both the supply connection and the return connection are in fluid

communication with the one or more channels.

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1	18.	(New) The cooling device of claim 17 wherein the first projections and the second
2		projections have beveled, flat sides and a trapezoidal cross section.
3		
4	19.	(New) The cooling device of claim 18 wherein the first projections comprise first ribs
5		extending laterally across the first heat sink part and the second projections comprise
6		second ribs extending laterally across the second heat sink part.
7		
8	20.	(New) The cooling device of claim 17 wherein the second heat sink part includes two or
9		more channels and has in the region of the supply connection or the return connection a
10		collection chamber in fluid communication with the two or more channels.
11		
12	21.	(New) The cooling device of claim 17 wherein the contact surface of the second heat sink
13		part is larger than the contact surface of the first heat sink part in at least one lateral
14		dimension and wherein the first projections and the second projections are formed so that
15		the first heat sink part and the second heat sink part may be placed together in multiple
16		different operating positions with the first projections interdigited with the second
17		projections.
18		
19	22.	(New) The cooling device of claim 17 wherein the first heat sink part is formed as a heat
20		pipe.

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1	23.	(New)	The co	pooling device of claim 17 further including a first attachment arrangement for
2		detach	ably co	nnecting the first heat sink part to the electronic component to be cooled.
3				
4	24.	(New)	The co	poling device of claim 23 further including a second attachment arrangement
5		for det	achably	y connecting the second heat sink part to the first heat sink part independent
6		of the	first att	achment arrangement so that if the second heat sink part is detached from the
7		first he	eat sink	part, the first heat sink part may remain connected to the electronic
8		compo	nent vi	a the first attachment arrangement.
9				
10				
11	25.	(New)	An ele	ectronic component cooling system including:
12		(a)	a rack	for storing several electronic systems, each electronic system including one
13			or mo	re electronic components to be cooled; and
14		(b)	for eac	ch electronic component to be cooled, a cooling device including,
15			(i)	a first heat sink part having a component surface adapted to be placed in a
16				heat transfer relationship with the electronic component;
17			(ii)	a second heat sink part adapted to be placed together with the first heat sink
18				part in an operating position;
19			(iii)	one or more first projections making up a contact surface of the first heat
20				sink part, and one or more second projections making up a contact surface
21				of the second heat sink part, wherein the contact surface of the first heat
22				sink part is adapted to mate with the contact surface of the second heat sink

1		ŗ	part with the one or more first projections interdigited with the one or more
2		S	second projections when the first heat sink part and the second heat sink
3		ŗ	part are placed together in the operating position;
4		(iv) o	one or more channels formed in the second heat sink part at least partially
5		t	hrough one or more of the second projections for carrying a flow of liquid
6		c	coolant there through; and
7		(v) a	supply connection and a return connection included with the second heat
8		S	sink part, wherein both the supply connection and the return connection are
9		i	n fluid communication with the one or more channels.
10			
- 11	26.	(New) The coo	ling system of claim 25 further including a central coolant reservoir, and
12		wherein at least	two of the cooling devices are arranged with their respective supply
13		connection and	return connection connected to the central coolant reservoir.
14			
15	27.	(New) The coo	ling system of claim 26 wherein the central coolant reservoir is arranged in
16		or on the rack.	
17			
18	28.	(New) The coo	ling system of claim 25 further including for each cooling device a supply
19		line which conn	ects the supply connection of the respective cooling device to a central
20		coolant supply o	conduit included in the rack, and a return line which connects the return
21		connection of th	ne respective cooling device to a central coolant return conduit included in
22		the rack.	

13 (c) a second heat sink part placed together with the first heat sink part in an operation position; 15 (d) one or more first projections making up a contact surface of the first heat sink part and one or more second projections making up a contact surface of the second sink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection contact surface of the second heat sink part with the one or more first projection.	1	29.	(New)	The cooling system of claim 28 wherein the central coolant supply conduit is a
return line includes a flexible portion. (New) The cooling system of claim 28 wherein the total length of each combination or up of the supply line to a respective cooling device and the return line from the respect cooling device is approximately equal for each cooling device. (New) An apparatus including: (a) an electronic component; (b) a first heat sink part in a heat transfer relationship with the electronic componer as second heat sink part placed together with the first heat sink part in an operating position; (d) one or more first projections making up a contact surface of the first heat sink part mates with the contact surface of the second becomes sink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second project	2		rigid c	onduit fixed in the rack and each supply line includes a flexible portion, and
10 31. (New) An apparatus including: 11 (a) an electronic component; 12 (b) a first heat sink part in a heat transfer relationship with the electronic componer position; 15 (d) one or more first projections making up a contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projections when the first heat sink part mates intended to the second projections when the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part	3		wherei	in the central coolant return conduit is a rigid conduit fixed in the rack and each
10 30. (New) The cooling system of claim 28 wherein the total length of each combination or up of the supply line to a respective cooling device and the return line from the respect cooling device is approximately equal for each cooling device. 10 31. (New) An apparatus including: 11 (a) an electronic component; 12 (b) a first heat sink part in a heat transfer relationship with the electronic component position; 13 (c) a second heat sink part placed together with the first heat sink part in an operation position; 14 position; 15 (d) one or more first projections making up a contact surface of the first heat sink part and one or more second projections making up a contact surface of the second sink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part interdigited wit	4		return	line includes a flexible portion.
up of the supply line to a respective cooling device and the return line from the respect cooling device is approximately equal for each cooling device. (New) An apparatus including: (a) an electronic component; (b) a first heat sink part in a heat transfer relationship with the electronic component; (c) a second heat sink part placed together with the first heat sink part in an operation; (d) one or more first projections making up a contact surface of the first heat sink part and one or more second projections making up a contact surface of the second sink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part	5			
cooling device is approximately equal for each cooling device. (New) An apparatus including: (a) an electronic component; (b) a first heat sink part in a heat transfer relationship with the electronic component; (c) a second heat sink part placed together with the first heat sink part in an operation; (d) one or more first projections making up a contact surface of the first heat sink part and one or more second projections making up a contact surface of the second sink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part	6	30.	(New)	The cooling system of claim 28 wherein the total length of each combination made
10 31. (New) An apparatus including: 11 (a) an electronic component; 12 (b) a first heat sink part in a heat transfer relationship with the electronic component 13 (c) a second heat sink part placed together with the first heat sink part in an operation 14 position; 15 (d) one or more first projections making up a contact surface of the first heat sink part 16 and one or more second projections making up a contact surface of the second part of the second part of the first heat sink part mates with the 18 contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part	7		up of t	he supply line to a respective cooling device and the return line from the respective
10 31. (New) An apparatus including: (a) an electronic component; (b) a first heat sink part in a heat transfer relationship with the electronic component (c) a second heat sink part placed together with the first heat sink part in an operation; (d) one or more first projections making up a contact surface of the first heat sink part and one or more second projections making up a contact surface of the second sink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part	8		cooling	g device is approximately equal for each cooling device.
11 (a) an electronic component; 12 (b) a first heat sink part in a heat transfer relationship with the electronic component 13 (c) a second heat sink part placed together with the first heat sink part in an operation; 14 position; 15 (d) one or more first projections making up a contact surface of the first heat sink part and one or more second projections making up a contact surface of the second part sink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part interdigited with the one or more second projections when the first heat sink part	9			
12 (b) a first heat sink part in a heat transfer relationship with the electronic componer 13 (c) a second heat sink part placed together with the first heat sink part in an operati 14 position; 15 (d) one or more first projections making up a contact surface of the first heat sink p 16 and one or more second projections making up a contact surface of the second 17 sink part, wherein the contact surface of the first heat sink part mates with the 18 contact surface of the second heat sink part with the one or more first projection 19 interdigited with the one or more second projections when the first heat sink part	10	31.	(New)	An apparatus including:
13 (c) a second heat sink part placed together with the first heat sink part in an operation position; 15 (d) one or more first projections making up a contact surface of the first heat sink part and one or more second projections making up a contact surface of the second losink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part in an operation position; 19 interdigited with the one or more second projections when the first heat sink part in an operation position; 19 interdigited with the one or more second projections when the first heat sink part in an operation position; 19 interdigited with the one or more second projections when the first heat sink part in an operation position; 19 interdigited with the one or more second projections when the first heat sink part in an operation position; 19 interdigited with the one or more second projections when the first heat sink part in an operation position; 19 interdigited with the one or more second projections when the first heat sink part in an operation position; 19 interdigited with the one or more second projections when the first heat sink part in an operation position; 19 interdigited with the one or more second projections when the first heat sink part in an operation position	11		(a)	an electronic component;
position; (d) one or more first projections making up a contact surface of the first heat sink p and one or more second projections making up a contact surface of the second l sink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part	12		(b)	a first heat sink part in a heat transfer relationship with the electronic component;
one or more first projections making up a contact surface of the first heat sink part and one or more second projections making up a contact surface of the second sink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part	13		(c)	a second heat sink part placed together with the first heat sink part in an operating
and one or more second projections making up a contact surface of the second leads sink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projections when the first heat sink part mates with the one or more second projectio	14			position;
sink part, wherein the contact surface of the first heat sink part mates with the contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink pa	15		(d)	one or more first projections making up a contact surface of the first heat sink part,
contact surface of the second heat sink part with the one or more first projection interdigited with the one or more second projections when the first heat sink part with the one or more second projections when the first heat sink part with the one or more second projections when the first heat sink part with the one or more first projection.	16			and one or more second projections making up a contact surface of the second heat
interdigited with the one or more second projections when the first heat sink pa	17			sink part, wherein the contact surface of the first heat sink part mates with the
interdigited with the one or more second projections when the first heat sink pa	18			contact surface of the second heat sink part with the one or more first projections
and the second heat sink part are in the operation position;	19			interdigited with the one or more second projections when the first heat sink part
	20			and the second heat sink part are in the operation position;
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1		(e)	one or more channels formed through the second heat sink part at least partially
2			through one or more of the second projections for carrying a flow of liquid coolan
3			there through; and
4		(f)	a supply connection and a return connection included with the second heat sink
5			part, wherein both the supply connection and the return connection are in fluid
6			communication with the one or more channels.
7			
8	32.	(New)	The apparatus of claim 31 wherein the first projections and the second projections
9		have b	eveled, flat side and a trapezoidal cross section
10	•		
11	33.	(New)	The apparatus of claim 32 wherein the first projections comprise first ribs
12		extend	ing laterally across the first heat sink part and the second projections comprise
13		second	ribs extending laterally across the second heat sink part.